


<b>FORM</b> <b>2</b> Rev 12/05	<b>State of Colorado</b> <b>Oil and Gas Conservation Commission</b> 1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">DE</td> <td style="width: 25%;">ET</td> <td style="width: 25%;">OE</td> <td style="width: 25%;">ES</td> </tr> </table>	DE	ET	OE	ES
DE	ET	OE	ES				
<b>APPLICATION FOR PERMIT TO:</b>			Document Number:  1635554  Plugging Bond Surety  20030028				
1. <input checked="" type="checkbox"/> <b>Drill,</b> <input type="checkbox"/> Deepen, <input type="checkbox"/> Re-enter, <input type="checkbox"/> Recomplete and Operate							
2. TYPE OF WELL OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> COALBED <input type="checkbox"/> OTHER <input type="checkbox"/> Pilot _____ SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/> COMMINGLE ZONE <input type="checkbox"/>		Refiling <input type="checkbox"/> Sidetrack <input type="checkbox"/>					
3. Name of Operator: <u>SWEPI LP</u>		4. COGCC Operator Number: <u>78110</u>					
5. Address: <u>4582 S ULSTER ST PKWY #1400</u> City: <u>DENVER</u> State: <u>CO</u> Zip: <u>80237</u>							
6. Contact Name: <u>MICHAEL J. BERGSTROM</u> Phone: <u>(303)222-6347</u> Fax: <u>(303)222-6258</u> Email: <u>MICHAEL.BERGSTROM@SHELL.COM</u>							
7. Well Name: <u>HARPER HILL</u>		Well Number: <u>2-29</u>					
8. Unit Name (if appl): _____		Unit Number: _____					
9. Proposed Total Measured Depth: <u>4574</u>							
<b>WELL LOCATION INFORMATION</b>							
10. QtrQtr: <u>SENW</u> Sec: <u>29</u> Twp: <u>5N</u> Rng: <u>90W</u> Meridian: <u>6</u> Latitude: <u>40.359478</u> Longitude: <u>-107.523747</u>							
Footage at Surface: <u>1543</u> feet      FNL/FSL <u>FNL</u> <u>1347</u> feet      FEL/FWL <u>FWL</u>							
11. Field Name: <u>Waddle Creek</u>		Field Number: <u>90450</u>					
12. Ground Elevation: <u>6581</u>		13. County: <u>MOFFAT</u>					
14. GPS Data: Date of Measurement: <u>03/01/2011</u> PDOP Reading: <u>2.2</u> Instrument Operator's Name: <u>A. FLOYD</u>							
15. If well is <input checked="" type="checkbox"/> Directional <input type="checkbox"/> Horizontal (highly deviated) <b>submit deviated drilling plan.</b> Footage at Top of Prod Zone:      FNL/FSL      FEL/FWL      Bottom Hole:      FNL/FSL      FEL/FWL <u>1683</u> <u>FNL</u> <u>1285</u> <u>FWL</u> <u>2280</u> <u>FNL</u> <u>950</u> <u>FWL</u> Sec: <u>29</u> Twp: <u>5N</u> Rng: <u>90W</u> Sec: <u>29</u> Twp: <u>5N</u> Rng: <u>90W</u>							
16. Is location in a high density area? (Rule 603b)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
17. Distance to the nearest building, public road, above ground utility or railroad: <u>1242 ft</u>							
18. Distance to nearest property line: <u>1414 ft</u> 19. Distance to nearest well permitted/completed in the same formation: <u>1352 ft</u>							
<b>20. LEASE, SPACING AND POOLING INFORMATION</b>							
Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)			
NIOBRARA SHALE	NBRR		125	See map			

**IMPORTANT: SOME DATA FIELDS HAVE BEEN MODIFIED.**

21. Mineral Ownership: ☒ Fee ☐ State ☐ Federal ☐ Indian Lease #: \_\_\_\_\_

22. Surface Ownership: ☒ Fee ☐ State ☐ Federal ☐ Indian

23. Is the Surface Owner also the Mineral Owner? ☐ Yes ☒ No Surface Surety ID#: 20030020

23a. If 23 is Yes: Is the Surface Owner(s) signature on the lease? ☒ Yes ☐ No

23b. If 23 is No: ☐ Surface Owners Agreement Attached or ☒ \$25,000 Blanket Surface Bond ☐ \$2,000 Surface Bond ☐ \$5,000 Surface Bond

24. Using standard QtrQtr, Sec, Twp, Rng format enter entire mineral lease description upon which this proposed wellsite is located (attach separate sheet/map if you prefer):  
PLEASE SEE ATTACHED Mineral Lease Map

25. Distance to Nearest Mineral Lease Line: \_\_\_\_\_ 0 \_\_\_\_\_ 26. Total Acres in Lease: \_\_\_\_\_ 1800 \_\_\_\_\_

**DRILLING PLANS AND PROCEDURES**

27. Is H2S anticipated? ☐ Yes ☒ No If Yes, attach contingency plan.

28. Will salt sections be encountered during drilling? ☒ Yes ☐ No

29. Will salt (>15,000 ppm TDS CL) or oil based muds be used during drilling? ☒ Yes ☐ No

30. If questions 28 or 29 are yes, is this location in a sensitive area (Rule 901.e)? ☐ Yes ☒ No

31. Mud disposal: ☒ Offsite ☐ Onsite

Method: ☐ Land Farming ☐ Land Spreading ☒ Disposal Facility Other: \_\_\_\_\_

Note: The use of an earthen pit for Recompletion fluids requires a pit permit (Rule 905b). If air/gas drilling, notify local fire officials.

If 28, 29, or 30 are "Yes" a pit permit may be required.

Casing Type	Size of Hole	Size of Casing	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top
SURF	13+1/2	10+3/4	40.5	0	850	233	850	0
1ST	9+7/8	7+5/8	29.7	0	3,427	59	3,427	2,800
OPEN HOLE	6+3/4			0	4,574			

32. BOP Equipment Type: ☐ Annular Preventer ☒ Double Ram ☐ Rotating Head ☐ None

33. Comments TWO APDS ARE BEING SUBMITTED FOR HARPER HILL 2-29; ONE FOR THE PILOT HOLE AND ONE FOR THE HORIZONTAL HOLE. THIS APD IS FOR THE PILOT HOLE. THERE ARE TWO DRILL HOLES AT THIS LOCATION: HARPER HILL 1-29 AND HARPER HILL 2-29. ATTACHMENTS INCLUDE A DRILLING AND COMPLETION PLAN. SWEPI owns an interest in leases colored in pink

34. Location ID: \_\_\_\_\_

35. Is this application in a Comprehensive Drilling Plan ? ☐ Yes ☐ No

36. Is this application part of submitted Oil and Gas Location Assessment ? ☒ Yes ☐ No

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: \_\_\_\_\_ Print Name: MICHAEL BERGSTROM

Title: SR REGULATORY ADVISOR Date: 4/15/2011 Email: MICHAEL.BERGSTROM@SH

Based on the information provided herein, this Application for Permit-to-Drill complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved: David S. Nesline Director of COGCC Date: 6/23/2011

Permit Number: \_\_\_\_\_ Expiration Date: 6/22/2013

**API NUMBER**

05 081 07659 00

**CONDITIONS OF APPROVAL, IF ANY:**

All representations, stipulations and conditions of approval stated in the Form 2A for this location shall constitute representations, stipulations and conditions of approval for this Form 2 Permit-to-Drill and are enforceable to the same extent as all other representations, stipulations and conditions of approval stated in this Permit-to-Drill.

(1) COMPLIANCE WITH THE MOST CURRENT REVISION OF THE NORTHWEST COLORADO NOTIFICATION POLICY IS REQUIRED.

(2) THE MOISTURE CONTENT OF ANY DRILL CUTTINGS IN A CUTTINGS PIT, TRENCH, OR PILE SHALL BE AS LOW AS PRACTICABLE TO PREVENT ACCUMULATION OF LIQUIDS GREATER THAN DE-MINIMIS AMOUNTS. AT THE TIME OF CLOSURE, THE DRILL CUTTINGS MUST ALSO MEET THE APPLICABLE STANDARDS OF TABLE 910-1.

(3) THE SURFACE CASING IS MORE THAN 50' BELOW THE DEPTH OF THE DEEPEST WATER WELL WITHIN 1-MILE OF THE SURFACE LOCATION WHEN CORRECTED FOR ELEVATION DIFFERENCES. THE DEEPEST WATER WELL WITHIN 1-MILE IS 450 FEET DEEP.

Before placing oil/salt based muds in the pit, operator must file and receive prior approval of a Pit Permit, Form 15. COGCC regulations regarding pit permits can be found in Rule 903.a.(3). PIT PERMITTING/REPORTING REQUIREMENTS.

**Attachment Check List**

Att Doc Num	Name
1635554	APD ORIGINAL
1635555	WELL LOCATION PLAT
1635556	TOPO MAP
1635557	MINERAL LEASE MAP
1635558	DEVIATED DRILLING PLAN
1635559	LEGAL/LEASE DESCRIPTION
1635560	DRILLING PLAN
1635561	CORRESPONDENCE
2089453	MINERAL LEASE MAP

Total Attach: 9 Files

**General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Permit	Attached revised mineral lease map and received confirmation that SWEPI does own a mineral lease position along the wellbore Added information to the Objective Formation tab to reflect the 600 foot offset drilling unit that was established	6/21/2011 2:45:20 PM
Permit	Changed top of production values per Aleta Brown	6/13/2011 9:20:11 AM
Permit	Added field as Waddle Creek and changed distance to nearest surface feature to 1,242'	5/11/2011 3:51:22 PM
Permit	Corrected bonds as directed by opr-Michael. sf	5/6/2011 2:13:37 PM
Data Entry	CHECK DIRECTIONAL FOOTAGE AT TOP OF PROD ZONE OMITTED BY OPERATOR - ENTERED FOR SUBMISSION.	5/5/2011 2:24:35 PM

Total: 5 comment(s)

**BMP**

<u>Type</u>	<u>Comment</u>

Total: 0 comment(s)